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| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/618,399 | LIN ET AL. | |
| | Examiner | Art Unit | |
| | Phuong T. Vu | 2841 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Interview of 20 April 2005 and AF filed 15 April 2005.
2. ☒ The allowed claim(s) is/are 1,2,11 and 12.
3. ☒ The drawings filed on 11 July 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date <u>attached</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Wei Te Chung on 4/20/05.

The application has been amended as follows:

In claim 11, line 11, following "two adjacent", the word "two" has been deleted.

In claim 12, line 10, following "wherein", the word "for" has been deleted.

In claim 12, line 10, following "polygonal vents", the following has been deleted
", an EMI shielding can be achieved by" and replaced with --is surrounded by--.

In claim 12, line 13, preceding "sides", the word "other" has been deleted.

In claim 12, line 13, following "therefrom", the following has been inserted --to achieve EMI shielding--.

2. The following is a discussion of the prior art in conjunction with allowed claims 1-2.

Lin (US 6,418,020) discloses a heat sink with fins divided into 4 quadrants wherein each quadrant has sidewalls integrally extending from the base wherein a sidewall comprises two adjacent sides arranged perpendicularly to one another. The reference does not teach providing vents and there is no motivation to do so. Furthermore, the reference does not teach providing alternatively arranged sidewalls

wherein with a pair of walls of a first sidewall extends on opposite sides and a second pair of walls extends on opposite sides of and perpendicular to the first pair of sidewalls as recited in claim 1.

Nelson (US 5,744,213) discloses a plurality of alternatively positioned vents which defines a pattern for cooling and airflow but does not teach that the vents have sidewalls as recited in claim 1.

Huang (US 6,446,709B1) discloses a heat sink formed from a two plates. Each plate has vents. Each vent has two integrally extending sidewalls on opposite sides of a vent. However the resulting heat sink does not provide the recited alternatively positioned first and second vents, with each of the first vents having two sidewalls on opposite sides of the first vent and second vents, each of the second vents having two sidewalls on opposites of the second vents and perpendicular to said first sidewalls as recited in claim 1.

3. The following is a discussion of the prior art in conjunction with allowed claim 11. Mitchell (US 6,426,459B1) discloses an EMI-attenuating ventilation panel 10 for an electronic device enclosure comprising an electronically conductive base plate 24, and a plurality of polygonal vents 54 defined in the base plate, each of the vents having a plurality of sidewalls (see figure 2, 5, 5b) upwardly extending from the base plate on respective sides thereof, wherein for each of said polygonal vents, the corresponding side walls are alternatively arranged for at least every two adjacent sides thereof (see figures 2, 5, 5b) as for every pair of two adjacent sides, each of the sides are non-parallel and opposing and therefore may be considered alternatively arranged.

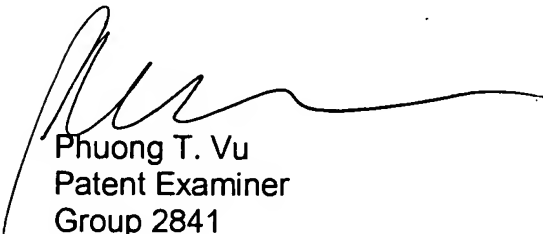
However, it is noted that the limitation that "for each of said polygonal vent, not all the sides have corresponding side walls extending therefrom" cannot be met. Although, the some of the vents positioned along the periphery of the panel do not have corresponding side walls extending therefrom, it cannot be stated that this is true for each vent. Merriam-Webster's Collegiate Dictionary, Tenth Edition, defines each to mean "each one".

4. The following is a discussion of the prior art in conjunction with allowed claim 12. Mitchell (US 6,426,459B1) discloses an EMI-attenuating ventilation panel 10 for an electronic device enclosure comprising an electronically conductive base plate 24, and a plurality of polygonal vents 54 defined in the base plate, each of the vents having a plurality of sidewalls (see figure 2, 5, 5b) upwardly extending from the base plate on respective sides thereof, wherein each of said polygonal vents is surrounded by not only the side walls extending from the corresponding side walls thereof, but also the corresponding side walls of the neighboring vents to achieve EMI shielding as any side walls of any of the vents would contribute to provide EMI shielding. However, for each of the vents it cannot be said that "not all the sides have corresponding side walls extending therefrom" as required by the claim. As noted above, although, the some of the vents positioned along the periphery of the panel do not have corresponding side walls extending therefrom, it cannot be stated that this is true for each vent. It follows then, for each of the vents, the above-mentioned corresponding side walls of the neighboring vents are not located beside the sides having no side walls extending therefrom.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong T. Vu whose telephone number is (571) 272-2111. The examiner can normally be reached on Mon. & Tues., 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Patent Examiner
Group 2841